

## CLAIMS

1. A method of dynamically generating a Web page definition comprising the steps of:

creating a set of objects;

5 making a plurality of modifications to said set of objects at runtime;

generating said Web page definition using said set of objects.

2. The method of claim 1 wherein said step of making a plurality of modifications further comprises the step of adding new objects to said set of objects.

10 3. The method of claim 1 wherein said step of making a plurality of modifications further comprises the step of modifying said set of objects.

4. The method of claim 3 wherein said step of modifying said set of objects further comprising the steps of:

retrieving data from an external data source;

15 modifying properties of said set of objects using said data.

5. A method of maintaining state information in a Web application comprising the steps of:

defining properties for said state information;

retaining said state information based on said properties;

20 retrieving said state information based on said properties; and

accessing said state information based on said properties.

6. The method of claim 5 wherein one of said properties defines the duration of said state information.

7. The method of claim 5 wherein one of said properties defines the scope of said state information.

5 8. The method of claim 5 wherein one of said properties defines a storage policy for said state information.

9. A method of processing data in a Web page comprising the steps of:

creating a storage space;  
10 activating control logic;  
said control logic retrieving said Web page data; and  
said control logic pushing said data into said storage space.

10. The method of claim 9 wherein said storage space is comprised of one or more objects, said step of pushing further comprises the step of  
15 loading said data in a plurality of properties of said one or more objects.

11. The method of claim 9 wherein said step of retrieving further comprises the steps of:

examining said Web page data to determine if it specifies said control  
logic;  
20 retrieving said Web page data when it specifies said control logic.

12. The method of claim 9 further comprising the step of updating an external data store with said data contained in said storage space.

13. A method of handling a Web page comprising the steps of:

receiving from a client a returned page containing a request;

5 activating event objects associated with said returned page; and

processing said returned page using said event objects.

14. A method of handling a Web transaction comprising the steps of:

receiving from a client a returned page containing a request;

10 activating event objects associated with said returned page;

determining whether a response is needed;

performing the following when a response is needed:

(a) identifying a response page;

(b) activating event objects associated with said response page;

15 (c) generating said response;

(d) transmitting said response to said client.

15. The method of claim 14 further comprising the steps of:

verifying said request; and

termination said request when said request is not valid.

20 16. The method of claim 15 wherein said verification step further comprises the steps of:

obtaining a first verification string associated with said request;  
retrieving a session associated with said client;  
retrieving a session key from said session;  
generating a second verification string using said session key and a  
5 subset of the information contained in said request;  
comparing said first verification string with said second verification  
string.

17. The method of claim 15 further comprising the step of setting  
state information.

10 18. A method of generating a definition for a Web page comprising  
the steps of:

defining a plurality of components, each of said plurality of  
components defining a portion of said Web page;

15 combining said plurality of components to create said Web page  
definition.

19. The method of claim 18 further comprising the steps of:

creating control logic for said Web page;

creating control logic for said plurality of components.

20 20. The method of claim 19 wherein said step of combining is  
performed by said control logic for said Web page and said control logic for  
said plurality of components.

21. A method of generating a multi-content Web page comprising the steps of:

defining a first component that contains a first set of definitional constructs, said first component defining a first portion of said Web page;

5 defining a second component using a second set of definitional constructs, said second component defining a second portion of said Web page;

combining said first component and said second component to create said Web page.

10 22. The method of claim 21 further comprising the steps of:

creating a first control logic for said first component;

creating a second control logic for said second component;

creating a third control logic for said Web page.

15 23. The method of claim 22 wherein said step of combining is performed by said first, second, and third control logic.

24. A method of sharing Web definitions comprising the steps of:

creating a component containing definitional constructs and owning a plurality of resources;

defining a first Web page that includes said component; and

20 defining a second Web page that includes said component.

25. The method of claim 24 wherein said resources includes templates, associations, and custom logic.

26. The method of claim 25 wherein said template provides an initial definition of said Web page.

27. The method of claim 25 wherein said associations includes binding information for dynamic binding.

5 28. The method of claim 27 wherein said binding information binds said custom logic to said Web page.

29. The method of claim 28 wherein said binding information binds an object that implements one of said definitional constructs with an corporate data object.

10 30. The method of claim 25 said associations identify objects that implement definitional constructs.